



COMPRESSED AIR TREATMENT

# REDEFINED



## OIL-X

COMPRESSED AIR FILTER

**Parker domnick hunter OIL-X; a new series of compressed air filters, taking efficiency to a different level.**

Built on Parker's worldwide expertise in filtration, the OIL-X range has been developed to ensure consistent outstanding air quality, guaranteed for 12 months - and third-party validated to meet ISO 8573-1.

### LOWEST DIFFERENTIAL PRESSURE ON THE MARKET

Combining the unique filter element with a specially designed advanced air flow management system, the Parker domnick hunter OIL-X range is engineered to not only deliver air quality in accordance with ISO 8573-1 classifications, but it does so with the lowest differential pressure on the market - ensuring maximum efficiency and productivity.

#### Unique filter element

Specially constructed for reduced air flow velocity, reduced pressure loss, increased dirt holding capacity, and improved efficiency. Includes a 12-month air quality guarantee.

#### Flow management system

Specially engineered 'bell mouth', with 90-degree elbow, flow distributor and conical flow diffuser, to promote a consistent, optimum air flow.

#### Filter housing

Designed to allow easy maintenance and element replacement, and covered by a 10-year guarantee.

#### Flexible connections

A wide range of port sizes and filter connections, for added flexibility.

#### Epoxy coating

Finished with alocrom corrosion protection and a tough, dry powder epoxy coating for a high quality feel.

## Product Selection

Grades	Element Type	Model Size	Port Connection	Thread Connection	Drain Type	Differential Pressure Indicator*
AA	P	030	G	G	F	I
<ul style="list-style-type: none"> <li>WS</li> <li>AO</li> <li>AA</li> <li>ACS</li> </ul>	P	<ul style="list-style-type: none"> <li>010</li> <li>015</li> <li>020</li> <li>025</li> <li>030</li> <li>035</li> <li>040</li> <li>045</li> <li>050</li> <li>055</li> <li>060</li> </ul>	<ul style="list-style-type: none"> <li>A (¼")</li> <li>B (⅜")</li> <li>C (½")</li> <li>D (¾")</li> <li>E (1")</li> <li>F (1 ½")</li> <li>G (1 ½")</li> <li>H (2")</li> <li>I (2 ½")</li> <li>J (3")</li> <li>K (4")</li> </ul>	<ul style="list-style-type: none"> <li>G (BSPP)</li> <li>N (NPT)</li> </ul>	<ul style="list-style-type: none"> <li>F (Float)</li> <li>M (Manual)</li> </ul>	<ul style="list-style-type: none"> <li>X (None)</li> <li>I (DPI)</li> </ul>

\* AO/AA only available with differential pressure indicator (I) WS/ACS only available without differential pressure indicator (X)

## Technical Data

Filtration Grade	Filter Type	Drain Type	Min Operating Pressure		Max Operating Pressure		Min Operating Temperature		Max Operating Temperature	
			bar g	psi g	bar g	psi g	°C	°F	°C	°F
WSP010-WSP050	Water Separator	Float	1	15	16	232	2	35	80	176
WSP060	Water Separator	Float	1	15	16	232	2	35	66	150
A0/AA	Coalescing	Float	1	15	16	232	2	35	80	176
A0/AA	Dry Particulate	Manual	1	15	20	290	2	35	100	212
ACS	Oil Vapour Removal	Manual	1	15	20	290	2	35	50	122

## Water Separator Flow Rates

Stated flows are for operation at 7 bar (g) (102 psi g) with reference to 20°C, 1 bar (a), 0% relative water vapour pressure. For flows at other pressures, apply the correction factors shown below.

Model	Port Connection	Flow Rates			
		L/s	m³/min	m³/hr	scfm
WSP010A	¼"	10	0.6	36	21
WSP010B	⅜"	10	0.6	36	21
WSP010C	½"	10	0.6	36	21
WSP015C	½"	40	2.4	144	85
WSP020D	¾"	40	2.4	144	85
WSP025D	¾"	110	6.6	396	233
WSP025E	1"	110	6.6	396	233
WSP030G	1 ½"	110	6.6	396	233
WSP035F	1 ½"	330	9.6	1188	339
WSP040H	2"	330	13.2	1188	466
WSP045I	2 ½"	330	19.8	1188	699
WSP050I	2 ½"	620	25.8	2232	911
WSP055J	3"	620	37.2	2232	1314
WSP060K	4"	1000	60.0	3600	2119

## Filtration Performance

Filtration Grade	WS	A0	AA	ACS
Filter Type	Bulk Liquid Removal	Coalescing & Dry Particulate	Coalescing & Dry Particulate	Oil Vapour Removal
Particle Removal (inc water & oil aerosols)	N/A	Down to 1 micron	Down to 0.01 micron	N/A
Max Remaining Oil Content at 21°C (70°F)	N/A	0.5mg/m <sup>3</sup> 0.5 ppm(w)	0.01mg/m <sup>3</sup> 0.01 ppm(w)	0.003 mg/m <sup>3</sup> 0.003 ppm(w)
Filtration Efficiency	>92%	99.925%	99.9999%	N/A
Test Methods Used	ISO8573.9	ISO8573.2 ISO8573.4 ISO12500-1	ISO8573.2 ISO8573.4 ISO12500-1	ISO8573.5
ISO12500-1 Inlet Challenge Concentration	N/A	40mg/m <sup>3</sup>	10mg/m <sup>3</sup>	N/A
Initial Dry Differential Pressure	N/A	<70 mbar (1.0psi)	<70 mbar (1.0psi)	<140 mbar (2.0psi)
Initial Saturated Differential Pressure	N/A	<125 mbar (1.8psi)	<125 mbar (1.8psi)	N/A
Change Element Every	N/A	12 months	12 months	When Oil Vapour is Detected
Precede with Filtration Grade	N/A	WS (for bulk liquid)	A0	AA

## Weight & Dimensions

Model	Height (H)		Width (W)		Depth (D)		Weight	
	mm	ins	mm	ins	mm	ins	kg	lbs
010A	180	7.09	76	2.99	66	2.60	0.61	1.34
010B	180	7.09	76	2.99	66	2.60	0.61	1.34
010C	180	7.09	76	2.99	66	2.60	0.61	1.34
015C	238.5	9.39	89	3.5	83.5	3.29	1.16	2.55
020C	238.5	9.39	89	3.5	83.5	3.29	1.12	2.58
020D	238.5	9.39	89	3.5	83.5	3.29	1.12	2.58
025D	277	10.9	120	4.72	114.5	4.50	2.21	4.86
025E	277	10.9	120	4.72	114.5	4.50	2.21	4.86
030G	367	14.45	120	4.72	114.5	4.50	2.68	5.91
035F	531	20.9	164	6.46	156	6.10	6.90	15.20
040H	623	24.5	164	6.46	156	6.10	7.30	16.10
045I	623	24.5	164	6.46	156	6.10	7.10	15.65
050I	745	29.3	192	7.56	183	7.20	10.30	22.71
055J	935	36.8	192	7.56	183	7.20	15.30	33.73
060K	847	33.3	420	16.54	282	11.10	44.50	98.11

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Catalogue XXXXX/UK MM/YYYY-TMCZ  
(month/year-printer name)



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## Filter Flow Rates

Model	Port Connection	Flow Rates				Replacement Elements
		L/s	m <sup>3</sup> /min	m <sup>3</sup> /hr	scfm	
A__P010A[*]	¼"	10	0.6	36	21	P010A__
A__P010B[*]	⅜"	10	0.6	36	21	P010A__
A__P010C[*]	½"	10	0.6	36	21	P010A__
A__P015C[*]	½"	20	1.2	72	42	P015A__
A__P020C[*]	½"	30	1.8	108	64	P020A__
A__P020D[*]	¾"	30	1.8	108	64	P020A__
A__P025D[*]	¾"	60	3.6	216	127	P025A__
A__P025E[*]	1"	60	3.6	216	127	P025A__
A__P030G[*]	1 ½"	110	6.6	396	233	P030A__
A__P035F[*]	1 ½"	160	9.6	576	339	P035A__
A__P040H[*]	2"	220	13.2	792	466	P040A__
A__P045I[*]	2 ½"	330	19.8	1188	699	P045A__
A__P050I[*]	2 ½"	430	25.8	1548	911	P050A__
A__P055J[*]	3"	620	37.2	2232	1314	P055A__
A__P060K[*]	4"	1000	60.0	3600	2119	P060A__

\_\_ = Replace with grade AA/AO/ACS

[\*] = Replace with (F) when ordering AO/AA coalescing filters, (M) when ordering AO/AA dry particulate filters or (M) when ordering ACS oil vapour removal filters

## Product Selection & Correction Factors

To correctly select a filter model, the flow rate of the filter must be adjusted for the minimum operating pressure of the system.

1. Obtain the minimum operating pressure and maximum compressed air flow rate at the inlet of the filter.
2. Select the correction factor for minimum operating pressure from the CFP table (always round down e.g for 5.3 bar, use 5 bar correction factor)
3. Calculate the minimum filtration capacity : Minimum Filtration Capacity = Compressed Air Flow Rate x CFP
4. Using the minimum filtration capacity, select a filter model from the flow rate tables above (filter selected must have a flow rate equal to or greater than the minimum filtration capacity)

## Correction Factors (WS)

Line Pressure	bar g	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	psi g	15	29	44	58	73	87	100	116	131	145	160	174	189	203	218	232
Correction Factor Pressure (CFP)	4	2.63	2.00	1.59	1.33	1.14	1.00	0.94	0.89	0.85	0.82	0.79	0.76	0.73	0.71	0.68	

## Correction Factors (AO, AA and ACS)

Line Pressure	bar g	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Manual Drain Filters Only			
	psi g	15	29	44	58	73	87	100	116	131	145	160	174	189	203	218	232	248	263	277	290
Correction Factor Pressure (CFP)	4	2.63	2.00	1.59	1.33	1.14	1.00	0.94	0.89	0.85	0.82	0.79	0.76	0.73	0.71	0.68	0.64	0.62	0.61	0.59	

For more information please contact your local sales office or visit [www.parker.com/gsf](http://www.parker.com/gsf)

Parker has a continuous policy of product development and although the company reserves the right to changes specifications, it attempts to keep customers informed of any alterations.